

IN THE CLAIMS:

1-8 (canceled)

9. (new) A method for producing foamed slag in an arc furnace comprising blowing a carbon carrier with an oxygen carrier into a boundary layer between a slag layer and a molten metal, or into a zone of the slag layer or a molten metal that are adjacent to the boundary layer, in an amount such that arcs are enveloped at least partially by said foamed slag layer, and blowing in a finely divided titanium carrier having a mean particle size  $d_{50}$  of from 0.001 to 1.0 mm and a grain size of up to 5 mm, wherein the titanium carrier is introduced in admixture with said carbon carrier and the content of titanium carrier, based on the carbon content, is from 1 to 80 %.

10. (new) The method according to claim 9, wherein said titanium carrier has a titanium dioxide content of from 5 to 100 % by weight.

11. (new) The method of claim 10, wherein said titanium carrier has a titanium dioxide content of from 20 to 80% by weight.

12. (new) The method according to claim 9, wherein the titanium carrier comprises up to 95 wt.% iron oxide.

13. (new) The method according to claim 9, wherein the titanium carrier comprises from 20 to 80 wt. % iron oxide.

14. (new) The method according to claim 9, wherein the titanium carrier contains at least one oxide selected from the group consisting of calcium oxide, silicon oxide, aluminum oxide and magnesium oxide.

15. (new) The method according to claim 10, wherein the titanium carrier contains at least one oxide selected from the group consisting of calcium oxide, silicon oxide, aluminum oxide and magnesium oxide.
16. (new) The method according to claim 9, wherein the titanium carrier consists of pure titanium dioxide.
17. (new) The method according to claim 16, wherein the particles of titanium carrier have a mean at 100% of up to 200 microns.